

Daily Flare Monitoring Data - Bridgeton Landfill
January 2021

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
1/1/2021	960	2	1	963
1/2/2021	960	2	1	962
1/3/2021	958	2	1	961
1/4/2021	960	2	1	963
1/5/2021	959	1	1	961
1/6/2021	955	2	1	957
1/7/2021	978	2	1	981
1/8/2021	994	2	1	996
1/9/2021	985	2	1	987
1/10/2021	979	2	1	982
1/11/2021	989	2	1	991
1/12/2021	1,002	1	1	1,004
1/13/2021	1,024	1	0	1,026
1/14/2021	1,029	1	0	1,031
1/15/2021	1,017	2	1	1,019
1/16/2021	1,025	2	1	1,028
1/17/2021	1,030	2	1	1,032
1/18/2021	1,011	1	1	1,013
1/19/2021	1,000	1	1	1,002
1/20/2021	1,032	1	0	1,033
1/21/2021	1,031	1	0	1,033
1/22/2021	1,017	2	1	1,019
1/23/2021	1,018	2	1	1,020
1/24/2021	1,015	1	1	1,017
1/25/2021	999	2	1	1,002
1/26/2021	969	2	1	972
1/27/2021	967	2	1	970
1/28/2021	1,023	2	1	1,025
1/29/2021	1,054	2	1	1,056
1/30/2021	1,049	2	1	1,051
1/31/2021	1,010	2	1	1,012
AVERAGE	1,000	2	1	1,003

* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified
 *** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.
 On 10/8/19, the Bridgeton Landfill combined the North Quarry gas and the South Quarry Gas to the Main Flare

Flare Station Lab Data

South Quarry

Date	CH4	CO2	O2	N2	H2	CO (ppm)	Comments:
7/9/2019	15.0	38.0	5.7	32.0	7.6	270	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
7/16/2019	16.0	36.0	5.8	33.0	8.1	275	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
8/9/2019	17.6	40.5	4.6	27.9	8.2	330	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/9/2019	17.4	37.4	5.5	30.7	7.9	290	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/13/2019	17.4	37.2	5.6	30.5	8.1	290	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
10/9/2019	25.6	37.4	4.3	25.8	6.2	220	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
11/7/2019	24.7	37.5	4.6	26.2	6.4	205	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
12/5/2019	24.5	36.0	5.3	27.5	6.2	195	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
1/3/2020	25.0	36.0	5.2	27.5	5.9	200	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
2/6/2020	24.5	33.0	6.4	30.0	5.8	180	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
3/4/2020	23.5	38.0	5.3	28.0	5.1	160	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
4/6/2020	26.0	37.5	4.6	26.5	5.2	160	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
5/5/2020	23.5	36.5	5.4	28.5	4.9	145	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
6/3/2020	26.0	40.0	3.8	23.5	5.5	150	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
7/6/2020	26.0	40.0	3.7	24.0	5.3	150	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
8/4/2020	25.0	37.5	4.6	26.0	5.8	125	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/3/2020	28.5	40.0	3.7	21.5	6.0	130	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
10/6/2020	28.0	40.0	3.7	24.0	4.0	120	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
11/5/2020	25.5	36.5	5.4	28.0	3.9	110	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
12/4/2020	27.5	37.0	4.7	25.5	5.3	99.5	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
1/6/2021	26.5	34.5	5.7	28.5	4.6	82.0	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
2/3/2021	27.0	35.0	5.1	27.5	4.8	87.5	Gas concentrations based on average of Blower Outlet A and Blower Outlet B

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
1/1/2020												0	1,047	0	1047		1047	
1/2/2020	25.8	37	4.8	32.4	10.49	57.4						0	1,046	0	1046		1046	
1/3/2020	24.9	34.2	5.2	35.7	10.49	57.4						0	1,038	0	1038		1038	
1/4/2020												0	1,028	0	1028		1028	
1/5/2020												0	1,039	0	1039		1039	
1/6/2020	23.5	33.7	5.9	36.9	10.49	47						0	1,038	0	1038		1038	
1/7/2020	23.9	35	5.4	35.7	10.49	48.9						0	1,033	0	1034		1034	
1/8/2020	23	31.6	6	39.4	10.19	48.2						0	1,076	0	1076		1076	
1/9/2020	24.8	36	5.1	34.1	10.61	61.9						0	1,129	0	1129		1129	
1/10/2020	25.6	35.8	4.7	33.9	10.53	68.9						0	1,130	0	1130		1130	
1/11/2020												0	1,076	0	1076		1076	
1/12/2020												0	1,053	0	1054		1054	
1/13/2020	24.4	33.4	5.6	36.6	10.15	47.5						0	1,071	0	1071		1071	
1/14/2020	24.9	35	5.3	34.8	10.15	49.7						0	1,088	0	1088		1088	
1/15/2020	25.3	36.5	5.1	33.1	10.74	60.9						0	1,100	0	1100		1100	
1/16/2020	22.1	32.2	6.8	38.9	10.49	39.3						0	1,067	0	1067		1067	
1/17/2020	26.2	34.5	5.4	33.9	9.62	42.8						0	1,064	0	1065		1065	
1/18/2020												0	1,063	0	1064		1064	
1/19/2020												0	1,023	0	1024		1024	
1/20/2020	23.3	32	6.8	37.9	9.64	32						0	1,026	0	1026		1026	
1/21/2020	24.5	34.4	5.9	35.2	10.15	35.1						0	1,054	0	1055		1055	
1/22/2020	25.1	34.4	5.6	34.9	10.78	39.7						0	1,061	0	1062		1062	
1/23/2020	26.3	35.5	4.8	33.4	10.49	46.9						0	1,056	0	1056		1056	
1/24/2020	26.5	36.8	4.8	31.9	10.49	48.7						0	1,047	0	1047		1047	
1/25/2020												0	1,039	0	1040		1040	
1/26/2020												0	1,054	0	1054		1054	
1/27/2020	25.5	34.3	5.4	34.8	10.49	46.6						0	1,054	0	1054		1054	
1/28/2020	25.6	33.9	5.5	35	10.7	46						0	1,059	0	1059		1059	
1/29/2020	25.5	34.1	5.4	35	10.57	45.6						0	1,053	0	1053		1053	
1/30/2020	25.2	35.4	5.5	33.9	10.7	46.9						0	1,051	0	1051		1051	
1/31/2020	26.1	36.2	5.1	32.6	10.15	51.8						0	1,052	0	1053		1053	
2/1/2020												0	1,057	0	1057		1057	
2/2/2020												0	1,077	0	1077		1077	
2/3/2020	26.9	37.5	4.6	31	10.82	58.2						0	1,084	0	1084		1084	
2/4/2020	25.5	35.1	5.4	34	10.19	58.2						0	1,055	0	1055		1055	
2/5/2020	26.1	35	5.1	33.8	9.92	48.1						0	1,055	0	1055		1055	
2/6/2020	26.7	35.5	5	32.8	10.02	42.7						0	1,053	0	1053		1053	
2/7/2020	25.3	34.5	5.6	34.6	10.49	42.5						0	1,041	0	1042		1042	
2/8/2020												0	1,053	0	1054		1054	
2/9/2020												0	1,072	0	1072		1072	
2/10/2020	24.2	31.9	5.8	38.1	10.25	50.1						0	1,063	0	1063		1063	
2/11/2020	24.5	34.3	5.4	35.8	10.25	49.9						0	1,061	0	1061		1061	
2/12/2020	26.3	35.9	4.8	33	10.31	50.3						0	1,050	0	1051		1051	
2/13/2020	24.7	31.4	6.1	37.8	9.88	38.8						0	989	0	990		990	
2/14/2020	23.5	31.3	7	38.2	10.43	30						0	981	0	982		982	
2/15/2020												0	1,032	0	1032		1032	
2/16/2020												0	1,057	0	1057		1057	
2/17/2020	26.3	35.2	4.8	33.7	10.07	55						0	1,070	0	1070		1070	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
2/18/2020	24.5	33.4	5.6	36.5	10.25	51.7						0	1,042	0	1043		1043	
2/19/2020	23.5	32.3	6.1	38.1	10.27	41.2						0	1,049	0	1049		1049	
2/20/2020	24.9	33.3	5.8	36	9.92	40.3						0	1,051	0	1052		1052	
2/21/2020	23.4	33.3	5.7	37.6	9.68	33.2						0	1,074	0	1074		1074	
2/22/2020												0	1,088	0	1088		1088	
2/23/2020												0	1,095	0	1095		1095	
2/24/2020	26.5	36.4	4.4	32.7	10.14	57						0	1,085	0	1085		1085	
2/25/2020	25.4	35.4	5	34.2	9.51	50						0	1,064	0	1064		1064	
2/26/2020	24.1	33.1	5.6	37.2	9.81	43.7						0	1,065	0	1065		1065	
2/27/2020	24.3	32.9	5.6	37.2	9.68	39.7						0	1,070	0	1071		1071	
2/28/2020	24.5	33.7	5.5	36.3	9.81	43						0	1,072	0	1072		1072	
2/29/2020												0	1,087	0	1087		1087	
3/1/2020												0	1,130	0	1131		1131	
3/2/2020	24.4	34.6	5.4	35.6	10.14	63.8						0	1,113	0	1113		1113	
3/3/2020	25	33.7	5.2	36.1	10.68	59.2						0	1,101	0	1101		1101	
3/4/2020	24.2	34.8	5.4	35.6	10.31	60						0	1,122	0	1122		1122	
3/5/2020	24.2	33.9	5.4	36.5	10.74	54.9						0	1,102	0	1102		1102	
3/6/2020	23	32.1	6	38.9	10.56	54						0	1,080	0	1080		1080	
3/7/2020												0	1,098	0	1099		1099	
3/8/2020												0	1,120	0	1120		1120	
3/9/2020	25.1	35.2	5	34.7	10.31	71.3						0	1,115	0	1115		1115	
3/10/2020	24.3	33.8	5.4	36.5	10.13	55.7						0	1,067	0	1067		1067	
3/11/2020	26	34.2	4.8	35	9.95	55.6						0	1,092	0	1092		1092	
3/12/2020	26.6	37.2	4.2	32	10.19	60.8						0	1,075	0	1075		1075	
3/13/2020	24.1	34.4	5.6	35.9	10.07	54.1						0	1,040	0	1040		1040	
3/14/2020												0	1,048	0	1048		1048	
3/15/2020												0	1,045	0	1045		1045	
3/16/2020	26.5	36	4.8	32.7	10.02	51.6						0	1,057	0	1057		1057	
3/17/2020	25.7	37.1	5.1	32.1	9.81	57						0	1,064	0	1064		1064	
3/18/2020	27.5	37.4	4.1	31	9.89	58.5						0	1,072	0	1072		1072	
3/19/2020	28.9	38.9	3.6	28.6	9.96	67.9						0	1,092	0	1092		1092	
3/20/2020	25.2	34.8	5.4	34.6	9.81	66.5						0	1,057	0	1057		1057	
3/21/2020												0	1,055	0	1055		1055	
3/22/2020												0	1,062	0	1062		1062	
3/23/2020	26.2	35.3	5	33.5	9.85	52.2						0	1,051	0	1051		1051	
3/24/2020	27.1	37.1	4.7	31.1	9.94	53.8						0	1,048	0	1048		1048	
3/25/2020	27.3	37.2	4.4	31.1	9.56	58.3						0	1,068	0	1068		1068	
3/26/2020	27.3	37.8	4.4	30.5	10.27	63.7						0	1,095	0	1095		1095	
3/27/2020	27.8	37.9	4.2	30.1	9.81	71.1						0	1,101	0	1101		1101	
3/28/2020												0	1,051	0	1051		1051	
3/29/2020												0	1,078	0	1078		1078	
3/30/2020	25.5	36.1	5.3	33.1	10.49	61.4						0	1,090	0	1090		1090	
3/31/2020	26.7	37.6	4.6	31.1	10.49	65						57	1,033	0	1089		1089	
4/1/2020	26.2	36.2	4.7	32.9	10.49	55.4						0	983	0	983		983	
4/2/2020	26.3	37.5	4.4	31.8	9.85	63.6						0	947	0	947		947	
4/3/2020	27.1	37.5	4.2	31.2	10.61	70.1						0	954	0	954		954	
4/4/2020												0	927	0	928		928	
4/5/2020												0	923	0	923		923	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
4/6/2020	26.9	36.5	4.3	32.3	10.44	64.2							0	957	0	957		957
4/7/2020	27.5	38.4	3.8	30.3	10.57	79.4							0	985	0	985		985
4/8/2020	27.1	37.9	4	31	10.44	80.4							0	1,076	0	1076		1076
4/9/2020	25.9	36	4.8	33.3	10.36	64							0	1,071	0	1071		1071
4/10/2020	25.7	34.7	5.1	34.5	9.71	50.4							0	1,078	0	1078		1078
4/11/2020													0	1,085	0	1085		1085
4/12/2020													0	1,064	0	1064		1064
4/13/2020	25	34.7	5.4	34.9	10.02	50.4							0	1,010	0	1010		1010
4/14/2020	25.5	35.8	5.1	33.6	9.81	52.3							0	1,056	0	1057		1057
4/15/2020	26.1	35.8	4.6	33.5	10.57	52.8							0	1,057	0	1057		1057
4/16/2020	25.2	35.5	5.1	34.2	10.32	53.8							0	1,064	0	1064		1064
4/17/2020	27.8	37.4	4.1	30.7	10.3	57.4							0	1,062	0	1062		1062
4/18/2020													0	1,075	0	1075		1075
4/19/2020													0	1,087	0	1087		1087
4/20/2020	26.2	36.4	4.7	32.7	10.02	62.3							0	1,101	0	1102		1102
4/21/2020	25.6	35	4.9	34.5	10.23	66.8							178	901	0	1079		1079
4/22/2020	26.6	37.6	4.1	31.7	10.82	66.2							0	1,087	0	1087		1087
4/23/2020	27.6	38.1	3.9	30.4	10.49	67.2							0	1,069	0	1069		1069
4/24/2020													0	1,084	0	1084		1084
4/25/2020													0	1,052	0	1052		1052
4/26/2020													0	1,068	0	1068		1068
4/27/2020	25.6	36.5	5	32.9	10.57	67.7							0	1,088	0	1088		1088
4/28/2020	26.8	37.6	4.1	31.5	10.32	72.7							0	1,124	0	1124		1124
4/29/2020	26.7	37.9	4.3	31.1	11.08	69.1							0	1,085	0	1085		1085
4/30/2020	26.4	36.4	4.5	32.7	12.73	66.2							152	942	0	1095		1095
5/1/2020	26.7	35.8	4.2	33.3	10.26	67.2							0	1,125	0	1125		1125
5/2/2020													0	1,159	0	1159		1159
5/3/2020													0	1,130	0	1130		1130
5/4/2020	25.6	36.3	4.6	33.5	10.61	70							197	913	0	1110		1110
5/5/2020	26.2	35.8	4.6	33.4	9.98	65.6							129	941	0	1070		1070
5/6/2020	25.6	35.6	4.7	34.1	10.02	61.8							0	1,081	0	1081		1081
5/7/2020	27.4	37	4.3	31.3	9.98	64.5							0	1,108	0	1108		1108
5/8/2020	26.6	36	4.7	32.7	9.88	63.8							235	860	0	1095		1095
5/9/2020													0	1,104	0	1104		1104
5/10/2020													0	1,092	0	1092		1092
5/11/2020	25.3	35.3	4.8	34.6	9.98	60.8							0	1,089	0	1089		1089
5/12/2020	25.9	36.2	4.5	33.4	9.73	66							0	1,087	0	1088		1088
5/13/2020	26.3	37.1	4.3	32.3	10.15	64.2							0	1,080	0	1081		1081
5/14/2020	29.5	38	3.3	29.2	9.92	75.8							0	1,110	0	1110		1110
5/15/2020	27.7	36.4	4	31.9	10.13	76.3							0	1,112	0	1113		1113
5/16/2020													0	1,112	0	1112		1112
5/17/2020													0	1,102	0	1102		1102
5/18/2020	27.1	36.4	4.1	32.4	10.49	73.7							0	1,082	0	1082		1082
5/19/2020	27	36.2	4.1	32.7	10.15	70.6							0	1,066	0	1066		1066
5/20/2020	27.4	37.8	3.9	30.9	9.77	76							0	1,065	0	1065		1065
5/21/2020	27.1	37.1	4.1	31.7	9.68	71							0	1,071	0	1071		1071
5/22/2020													0	951	17	968		968
5/23/2020													0	1,196	0	1196		1196

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
5/24/2020												0	1,224	0	1224		1224	
5/25/2020												0	1,219	0	1219		1219	
5/26/2020	25.7	35.9	5.3	33.1	9.98	88.2						0	1,158	0	1158		1158	
5/27/2020	28.2	38.2	3.9	29.7	11.08	83.9						706	380	0	1086		1086	
5/28/2020	26.8	37.3	4.2	31.7	10.44	83.2						1,129	0	0	1129		1129	
5/29/2020	27.6	36.9	4	31.5	7.01	81.2						1,113	0	0	1113		1113	
5/30/2020												1,105	0	0	1105		1105	
5/31/2020												1,116	0	0	1116		1116	
6/1/2020	27.1	37.5	3.8	31.6	12.05	78.6						1,126	0	0	1126		1126	
6/2/2020	27.7	38.7	3.4	30.2	9.22	87.2						1,144	0	0	1144		1144	
6/3/2020	28	37.9	3.3	30.8	8.46	88.7						1,149	0	0	1149		1149	
6/4/2020	28.1	38.5	3.4	30	10.19	85.1						782	326	0	1108		1108	
6/5/2020	28.5	38.3	3.2	30	14.27	91.9						1,133	0	0	1133		1133	
6/6/2020												1,152	0	0	1152		1152	
6/7/2020												1,155	0	0	1155		1155	
6/8/2020	29	39.2	3.3	28.5	4.64	91.1						1,147	0	0	1147		1147	
6/9/2020	29.1	39.8	2.9	28.2	11.12	88.9						1,131	0	0	1131		1131	
6/10/2020	27.5	38.7	3.7	30.1	10.49	88.7						1,099	0	0	1099		1099	
6/11/2020	25.3	34.8	5	34.9	10.82	84.3						1,118	0	0	1118		1118	
6/12/2020	28.2	37.1	3.1	31.6	11.1	90						1,152	0	0	1152		1152	
6/13/2020												1,153	0	0	1153		1153	
6/14/2020												1,136	0	0	1136		1136	
6/15/2020	27.5	38.1	3.4	31	10.82	86.2						1,138	0	0	1138		1138	
6/16/2020	27.3	38.5	3.4	30.8	11.04	85.8						1,139	0	0	1139		1139	
6/17/2020	27.4	37.4	3.3	31.9	10.44	89.7						1,155	0	0	1155		1155	
6/18/2020	28	38.8	3	30.2	10.44	91.5						978	151	0	1129		1129	
6/19/2020	27.9	38.2	3	30.9	10.13	90.8						1,080	68	0	1147		1147	
6/20/2020												1,126	0	0	1126		1126	
6/21/2020												1,125	0	0	1125		1125	
6/22/2020	28.5	38.5	2.8	30.2	10.82	92.9						987	138	0	1126		1126	
6/23/2020	27.5	38.2	3.3	31	11.12	84.8						1,106	0	0	1106		1106	
6/24/2020	27.6	38.2	3.4	30.8	10.78	85.9						1,118	0	0	1118		1118	
6/25/2020	27.2	38.9	3.3	30.6	10.32	87.1						1,145	0	0	1145		1145	
6/26/2020												1,149	0	0	1149		1149	
6/27/2020												1,123	0	0	1123		1123	
6/28/2020												1,134	0	0	1134		1134	
6/29/2020	28.8	37.5	3.5	30.2	10.15	95.3						1,036	91	0	1127		1127	
6/30/2020	26.8	37.7	4	31.5	10.82	86.5						707	376	0	1082		1082	
7/1/2020	27.2	38.1	3.1	31.6	10.8	90.3						1,090	0	0	1090		1090	
7/2/2020	28.4	38	3.1	30.5	10.8	90.6						1,129	0	0	1129		1129	
7/3/2020												1,136	0	0	1136		1136	
7/4/2020												1,147	0	0	1147		1147	
7/5/2020												1,135	0	0	1135		1135	
7/6/2020	27.6	38.8	3.3	30.3	10.91	97.9						1,141	0	0	1141		1141	
7/7/2020	27.9	38.5	3.1	30.5	10.7	97.9						1,045	0	0	1045		1045	
7/8/2020	28	38.8	3	30.2	10.23	96						171	0	974	1146		1146	
7/9/2020	27.7	37.7	3.2	31.4	11.16	95.5						148	0	995	1143		1143	
7/10/2020	27.6	38.6	3.3	30.5	10.19	92.9						96	0	1,037	1133		1133	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
7/11/2020												283	0	863	1146		1146	
7/12/2020												251	0	877	1127		1127	
7/13/2020	27.6	38.9	3.4	30.1	10.19	91.5						48	0	1,085	1133		1133	
7/14/2020	27.7	38.8	3.1	30.4	10.49	92.6						52	0	1,086	1138		1138	
7/15/2020	27.1	38.1	3.6	31.2	9.81	93.2						1	0	1,010	1011		1011	
7/16/2020	25.8	36.3	4.6	33.3	9.77	85.6						156	0	945	1101		1101	
7/17/2020	26	35.2	4.3	34.5	10.8	93.5						42	0	1,081	1123		1123	
7/18/2020												133	0	993	1126		1126	
7/19/2020												842	0	31	873		873	
7/20/2020	28.7	38.7	3	29.6	10.32	89.8						243	0	888	1131		1131	
7/21/2020	27.4	38.4	3.9	30.3	10.15	90.6						202	0	873	1075		1075	
7/22/2020	27.4	37.7	3.8	31.1	10.74	89.6						1,182	0	0	1182		1182	
7/23/2020	27.6	37.7	3.8	30.9	10.06	94						1,188	0	0	1188		1188	
7/24/2020	27.4	37.2	3.8	31.6	10.27	93.5						145	0	1,048	1192		1192	
7/25/2020												110	0	1,090	1200		1200	
7/26/2020												255	0	944	1199		1199	
7/27/2020	28.1	37.1	3.6	31.2	11.16	96.7						108	0	1,041	1149		1149	
7/28/2020	27.6	37.5	3.7	31.2	10.4	89.3						1,160	0	0	1160		1160	
7/29/2020	28.2	38.6	3.6	29.6	10.47	92.6						58	0	1,110	1167		1167	
7/30/2020	29.2	40.5	3	27.3	10.09	87.9						81	0	1,044	1124		1124	
7/31/2020	28.2	38.7	3.5	29.6	10.13	87.5						1	0	1,068	1068		1068	
8/1/2020												34	0	1,044	1079		1079	
8/2/2020												28	0	1,078	1106		1106	
8/3/2020	28	38.8	3.5	29.7	10.68	85.2						60	0	1,035	1095		1095	
8/4/2020	28	36.7	3.8	31.5	9.96	77.3						8	0	1,088	1096		1096	
8/5/2020	27.3	35.5	4.1	33.1	10.25	77.5						53	0	1,059	1112		1112	
8/6/2020	28	36.6	4.1	31.3	10.3	81						55	0	1,071	1125		1125	
8/7/2020	27.7	36.7	4.2	31.4	10.64	86.3						58	0	1,053	1111		1111	
8/8/2020												62	0	1,024	1086		1086	
8/9/2020												860	0	0	860		860	
8/10/2020	29.8	39.8	3.3	27.1	10.89	93.9						1,076	0	0	1076		1076	
8/11/2020	29	39	3.6	28.4	10.47	86.9						1,069	0	0	1069		1069	
8/12/2020	29.3	39.5	3.5	27.7	10.13	92.8						1,064	0	0	1065		1065	
8/13/2020	29.6	37.9	3.4	29.1	10.47	91.1						1,059	0	0	1059		1059	
8/14/2020	30.1	39.6	3.2	27.1	9.75	90.5						669	409	0	1078		1078	
8/15/2020												1,068	0	0	1068		1068	
8/16/2020												1,067	0	0	1067		1067	
8/17/2020	29.7	37.1	3.3	29.9	10.25	86.7						1,087	0	0	1087		1087	
8/18/2020	29.4	39.3	3.8	27.5	13.85	86.7						1,075	0	0	1075		1075	
8/19/2020	29.1	37.8	3.9	29.2	10.6	83.5						680	400	0	1080		1080	
8/20/2020	29	37.3	3.8	29.9	10	81.3						0	1,089	0	1089		1089	
8/21/2020	30.4	39.5	3.7	26.4	10.13	83.7						0	1,098	0	1098		1098	
8/22/2020												0	1,090	0	1090		1090	
8/23/2020												0	1,086	0	1086		1086	
8/24/2020	29.1	37.6	3.5	29.8	10.13	91.7						0	1,095	0	1095		1095	
8/25/2020	29.8	38.5	3.4	28.3	10.76	93.5						108	968	0	1077		1077	
8/26/2020	29.9	39	3.3	27.8	11.86	92.2						4	1,101	0	1105		1105	
8/27/2020	26.2	34.6	5.7	33.5	10.81	95.4						1	1,127	0	1128		1128	

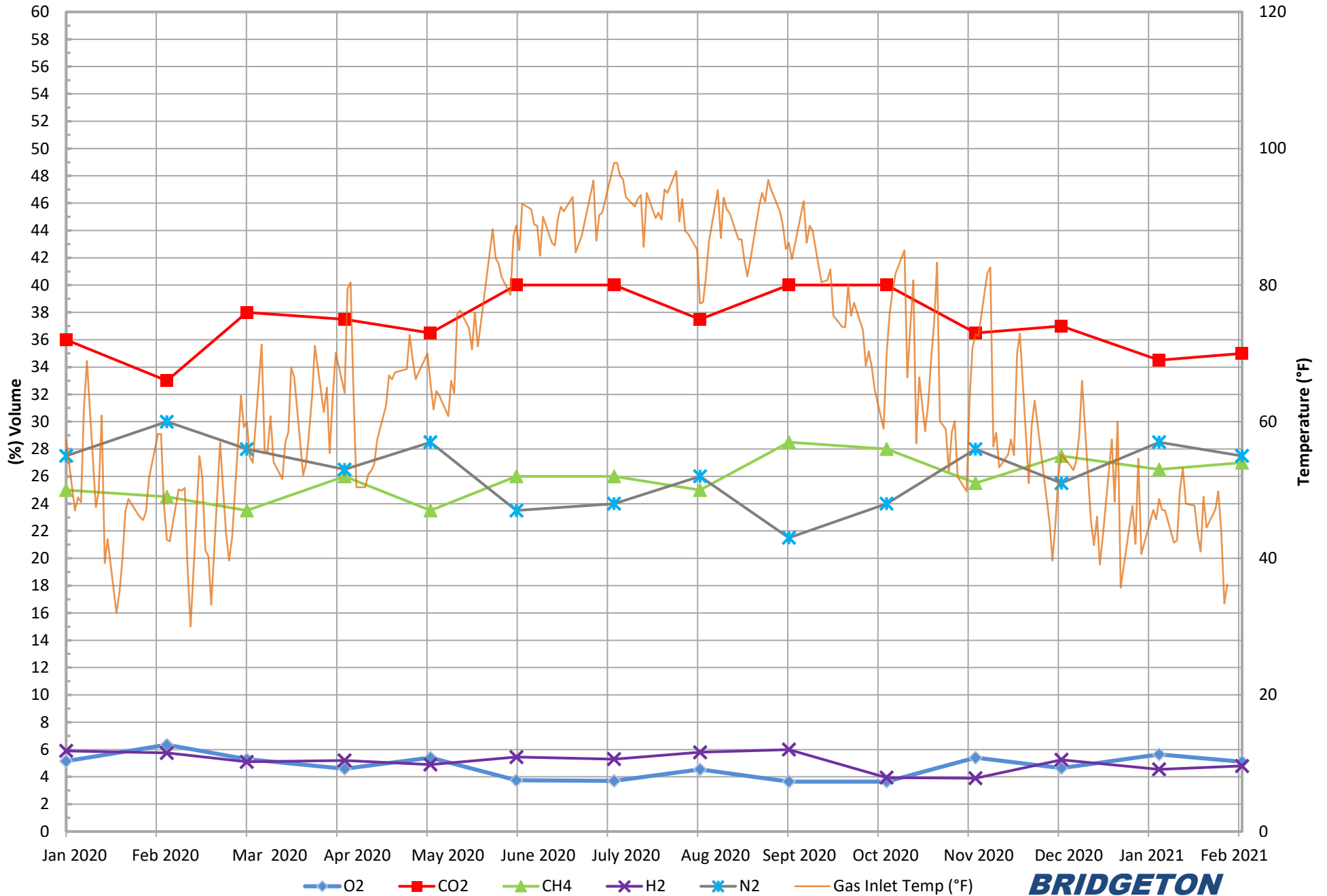
Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
8/28/2020	27.2	34.5	5.5	32.8	10.22	94							0	1,168	0	1168		1168
8/29/2020													0	1,136	0	1136		1136
8/30/2020													0	1,145	0	1145		1145
8/31/2020	26	34.4	5.9	33.7	10.34	90.8							0	1,128	0	1128		1128
9/1/2020	25.7	33.3	5.9	35.1	10.3	88.6							0	1,104	0	1104		1104
9/2/2020	25.9	34.6	5.9	33.6	10.22	85.3							0	1,062	0	1062		1062
9/3/2020	30	40.1	3.2	26.7	10.34	86.2							768	254	0	1021		1021
9/4/2020	28.4	38.2	4	29.4	10.51	83.8							1,017	0	0	1017		1017
9/5/2020													1,038	0	0	1038		1038
9/6/2020													1,036	0	0	1036		1036
9/7/2020													1,036	0	0	1036		1036
9/8/2020	29.1	39.4	3.4	28.1	10.49	92.3							1,025	0	0	1025		1025
9/9/2020	29	38.6	3.7	28.7	9.67	86.2							1,014	0	0	1014		1014
9/10/2020	28.5	39.3	3.5	28.7	10.23	88.7							1,027	0	0	1027		1027
9/11/2020	29.6	41.2	3.4	25.8	10.23	88							1,068	0	0	1068		1068
9/12/2020													1,047	0	0	1047		1047
9/13/2020													1,040	0	0	1040		1040
9/14/2020	31.9	39.9	3.5	24.7	10.78	80.4							1,054	0	0	1054		1054
9/15/2020	28.6	40.9	3.6	26.9	10.4	80.6							1,053	0	0	1053		1053
9/16/2020	29.3	41.2	3.4	26.1	10.49	80.7							1,052	0	0	1052		1052
9/17/2020	30.3	39.4	3.1	27.2	10.47	82.3							1,066	0	0	1066		1066
9/18/2020	28.2	36.5	4.3	31	10.47	75.5							1,072	0	0	1072		1072
9/19/2020													1,078	0	0	1078		1078
9/20/2020													1,073	0	0	1073		1073
9/21/2020	27.1	36.9	4.4	31.6	10.27	73.9							1,084	0	0	1084		1084
9/22/2020	27.8	38.8	4	29.4	11.12	73.8							1,081	0	0	1081		1081
9/23/2020	28.4	40.3	3.8	27.5	10.7	80							1,061	0	0	1061		1061
9/24/2020	28.9	40.2	3.7	27.2	10.49	75.5							1,058	14	0	1073		1073
9/25/2020	29.6	38.8	3.5	28.1	10.19	77.4							1,086	0	0	1086		1086
9/26/2020													1,099	0	0	1099		1099
9/27/2020													1,077	0	0	1077		1077
9/28/2020	28.7	38.1	4	29.2	10.49	73.4							1,073	0	0	1073		1073
9/29/2020	26.8	37.9	4.6	30.7	10.82	68.2							1,021	32	0	1053		1053
9/30/2020	29.1	38.8	3.6	28.5	10.74	70.3							1,074	0	0	1074		1074
10/1/2020	27.7	37.1	4.4	30.8	11.68	67.9							1,062	0	0	1062		1062
10/2/2020	27.6	37.1	4.3	31	10.5	64.7							1,063	0	0	1063		1063
10/3/2020													1,048	0	0	1048		1048
10/4/2020													1,042	0	0	1042		1042
10/5/2020	28.1	37.8	4.4	29.7	11.26	59							1,069	0	0	1069		1069
10/6/2020	28.7	38.9	3.6	28.8	11.13	70							1,080	0	0	1080		1080
10/7/2020	28.5	38.1	3.8	29.6	11.01	75.9							1,088	0	0	1089		1089
10/8/2020	28.7	37.9	3.8	29.6	11.64	79.1							1,100	0	0	1100		1100
10/9/2020	29.2	38.3	3.9	28.6	11.26	81.7							1,093	0	0	1093		1093
10/10/2020													1,083	0	0	1083		1083
10/11/2020													1,095	0	0	1095		1095
10/12/2020	30.2	38.3	3.6	27.9	10.81	85.1							1,066	0	0	1066		1066
10/13/2020	26.7	36.3	4.8	32.2	11.43	66.5							1,102	0	0	1102		1102
10/14/2020	28.3	35	4.4	32.3	10.81	73.9							1,130	0	0	1130		1130

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
10/15/2020	28.9	36.9	4.4	29.8	10.81	80.7						1,081	0	0	1082		1082	
10/16/2020	26.6	34.6	5.8	33	10.76	56.8						1,097	0	0	1097		1097	
10/17/2020	27.7	36.9	4.7	30.7	10.68	66.5						1,078	0	0	1078		1078	
10/18/2020												1,049	0	0	1049		1049	
10/19/2020	28.1	33.7	4.4	33.8	10.55	58.6						1,019	1	0	1020		1020	
10/20/2020	28.3	35.9	4.2	31.6	10.13	62.6						1,048	0	0	1049		1049	
10/21/2020	28.5	36.9	4.1	30.5	10.81	68.9						1,033	0	0	1033		1033	
10/22/2020	29.4	38.4	3.8	28.4	10.13	74.3						1,093	0	0	1093		1093	
10/23/2020	29.9	38.2	3.6	28.3	10.51	83.3						1,049	0	0	1050		1050	
10/24/2020	26.5	34.2	5.5	33.8	11.14	60.1						1,055	0	0	1056		1056	
10/25/2020												1,039	0	0	1039		1039	
10/26/2020	26.9	34.4	4.9	33.8	11.35	58.9						1,022	0	0	1023		1023	
10/27/2020	27.4	35	4.8	32.8	10.46	52.8						1,018	0	0	1019		1019	
10/28/2020	29.6	36.2	4.2	30	10.81	58.5						1,025	0	0	1025		1025	
10/29/2020	29.7	37.2	3.9	29.2	10.47	60.1						1,005	0	0	1005		1005	
10/30/2020	26.1	34.5	5.3	34.1	11.43	51.9						1,029	0	0	1029		1029	
10/31/2020												1,044	0	0	1044		1044	
11/1/2020												1,031	0	0	1031		1031	
11/2/2020	27.4	36.3	4.6	31.7	10.29	49.8						1,052	0	0	1052		1052	
11/3/2020	29	37.3	3.7	30	10.46	63.6						904	150	0	1055		1055	
11/4/2020	28.1	38.3	3.9	29.7	11.01	70.8						1,077	1	0	1077		1077	
11/5/2020	27.2	37.2	4.8	30.8	11.1	72.8						1,078	0	0	1079		1079	
11/6/2020	28.4	38.9	3.7	29	11.43	72.5						1,057	1	0	1059		1059	
11/7/2020												1,059	1	0	1060		1060	
11/8/2020												1,051	0	0	1051		1051	
11/9/2020	30.3	38.3	3.5	27.9	10.92	81.7						1,062	0	0	1062		1062	
11/10/2020	30.5	38.8	3.4	27.3	10.8	82.6						1,056	0	0	1056		1056	
11/11/2020	26.7	37.1	4.8	31.4	10.97	56.4						1,035	1	0	1036		1036	
11/12/2020	28.4	36.2	4.1	31.3	11.39	58.4						1,040	1	0	1041		1041	
11/13/2020	26.7	33.8	5.6	33.9	11.05	53.3						1,033	1	0	1035		1035	
11/14/2020												1,036	1	0	1037		1037	
11/15/2020												985	1	0	987		987	
11/16/2020	27.4	36.8	4.2	31.6	10.8	55.2						1,030	1	0	1031		1031	
11/17/2020	26.3	34	5.3	34.4	11.35	57.4						1,028	1	0	1030		1030	
11/18/2020	26.8	36.5	4.7	32	11.09	55.1						1,047	1	0	1048		1048	
11/19/2020	29.1	38.6	3.5	28.8	10.54	70						1,044	0	0	1045		1045	
11/20/2020	27.7	36.1	4.6	31.6	11.18	72.9						1,031	1	0	1032		1032	
11/21/2020												1,020	2	0	1022		1022	
11/22/2020												1,016	2	0	1018		1018	
11/23/2020	26.7	33.2	4.8	35.3	10.7	51						1,014	2	1	1017		1017	
11/24/2020	29.7	36.7	4	29.6	10.44	59.7						1,023	11	0	1035		1035	
11/25/2020	29.8	37.6	3.7	28.9	10.8	63.1						984	37	0	1022		1022	
11/26/2020												1,021	1	0	1022		1022	
11/27/2020												1,016	1	1	1018		1018	
11/28/2020												1,033	1	0	1034		1034	
11/29/2020												1,021	1	1	1023		1023	
11/30/2020	27	33.8	5.3	33.9	10.82	45.1						1,013	2	1	1016		1016	
12/1/2020	26.3	34.3	5.6	33.8	10.8	39.7						747	272	1	1020		1020	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
12/2/2020	27.2	32.7	5.3	34.8	10.8	45.2						1,020	1	1	1022		1022	
12/3/2020	27.8	32.6	4.9	34.7	11.16	52.2						1,020	2	1	1022		1022	
12/4/2020	28.3	35.5	4.8	31.4	10.49	55.2						1,008	1	0	1009		1009	
12/5/2020												1,006	1	0	1007		1007	
12/6/2020												998	1	1	999		999	
12/7/2020	28.3	34.5	5	32.2	10.06	53.6						982	1	1	984		984	
12/8/2020	28.2	35.7	4.9	31.2	10.42	52.9						980	2	0	982		982	
12/9/2020	28.6	36.1	4.6	30.7	10.46	54.2						990	1	0	991		991	
12/10/2020	29.2	37.2	4.2	29.4	9.79	58						1,000	1	0	1000		1000	
12/11/2020	29.4	35.7	3.9	31	11.47	66						994	0	0	995		995	
12/12/2020												968	1	0	970		970	
12/13/2020												962	2	1	964		964	
12/14/2020	27.3	34.3	5.2	33.2	10.12	45.5						955	2	1	957		957	
12/15/2020	26.8	33.4	5.8	34	10.92	41.9						996	2	1	999		999	
12/16/2020	27.9	33	5.5	33.6	10.8	46.1						993	2	1	996		996	
12/17/2020	27.2	36.2	5.1	31.5	11.81	39.1						928	37	1	966		966	
12/18/2020	28.2	35	5.1	31.7	11.09	43.3						966	2	1	968		968	
12/19/2020												983	1	0	985		985	
12/20/2020												975	1	1	977		977	
12/21/2020	28.9	35.6	4.6	30.9	6.03	57.4						979	1	0	980		980	
12/22/2020	26.6	34.3	5.3	33.8	3.8	48.3						989	1	0	991		991	
12/23/2020	30.5	37.8	3.8	27.9	2.42	60						996	1	0	997		997	
12/24/2020	25.4	32.8	5.7	36.1	1.83	35.7						946	3	1	950		950	
12/25/2020												921	3	1	925		925	
12/26/2020												952	1	1	954		954	
12/27/2020												962	1	0	963		963	
12/28/2020	26.9	31.7	6.1	35.3	11.26	47.7						945	2	1	947		947	
12/29/2020	27.2	33.7	5.5	33.6	10.46	42.1						970	3	1	973		973	
12/30/2020	29.2	36.8	4.5	29.5	10.46	54.6						952	2	1	955		955	
12/31/2020	27.3	35.1	5.4	32.2	10.13	40.6						958	2	1	960		960	
1/1/2021												960	2	1	963		963	
1/2/2021												960	2	1	962		962	
1/3/2021												958	2	1	961		961	
1/4/2021	28.2	34.3	5.2	32.3	10.46	47.1						960	2	1	963		963	
1/5/2021	27.6	34.7	5.6	32.1	10.12	45.7						959	1	1	961		961	
1/6/2021	28	34.7	4.9	32.4	10.46	48.7						955	2	1	957		957	
1/7/2021	28.2	32.8	5.2	33.8	10.61	47.1						978	2	1	981		981	
1/8/2021	27.5	34.9	5.1	32.5	10.57	47						994	2	1	996		996	
1/9/2021												985	2	1	987		987	
1/10/2021												979	2	1	982		982	
1/11/2021	29.2	35.1	5.3	30.4	10.13	42.3						989	2	1	991		991	
1/12/2021	29.2	36.2	4.9	29.7	10.82	42.6						1,002	1	1	1004		1004	
1/13/2021	29.5	35.8	4.6	30.1	10.53	49.9						1,024	1	0	1026		1026	
1/14/2021	29.9	37.2	4.1	28.8	10.49	53.2						1,029	1	0	1031		1031	
1/15/2021	29.5	36.7	4.9	28.9	10.64	48						1,017	2	1	1019		1019	
1/16/2021												1,025	2	1	1028		1028	
1/17/2021												1,030	2	1	1032		1032	
1/18/2021	27.4	34.8	5.1	32.7	10.61	47.7						1,011	1	1	1013		1013	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./Va c.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
1/19/2021	26.2	34.1	5.7	34	10.36	43.5						1,000	1	1	1002		1002	
1/20/2021	26.5	34.4	5.6	33.5	10.02	41						1,032	1	0	1033		1033	
1/21/2021	27.3	35.1	5.1	32.5	10.95	49						1,031	1	0	1033		1033	
1/22/2021	26.5	33.4	5.7	34.4	10.78	44.5						1,017	2	1	1019		1019	
1/23/2021												1,018	2	1	1020		1020	
1/24/2021												1,015	1	1	1017		1017	
1/25/2021	28.3	35.4	4.6	31.7	10.53	47.2						999	2	1	1002		1002	
1/26/2021	27.7	33.4	5.4	33.5	10.4	49.8						969	2	1	972		972	
1/27/2021	27.1	34.2	5.3	33.4	10.15	43.7						967	2	1	970		970	
1/28/2021	26.2	32.1	6	35.7	10.15	33.4						1,023	2	1	1025		1025	
1/29/2021	26.8	32	5.2	36	11.08	36.2						1,054	2	1	1056		1056	
1/30/2021												1,049	2	1	1051		1051	
1/31/2021												1,010	2	1	1012		1012	

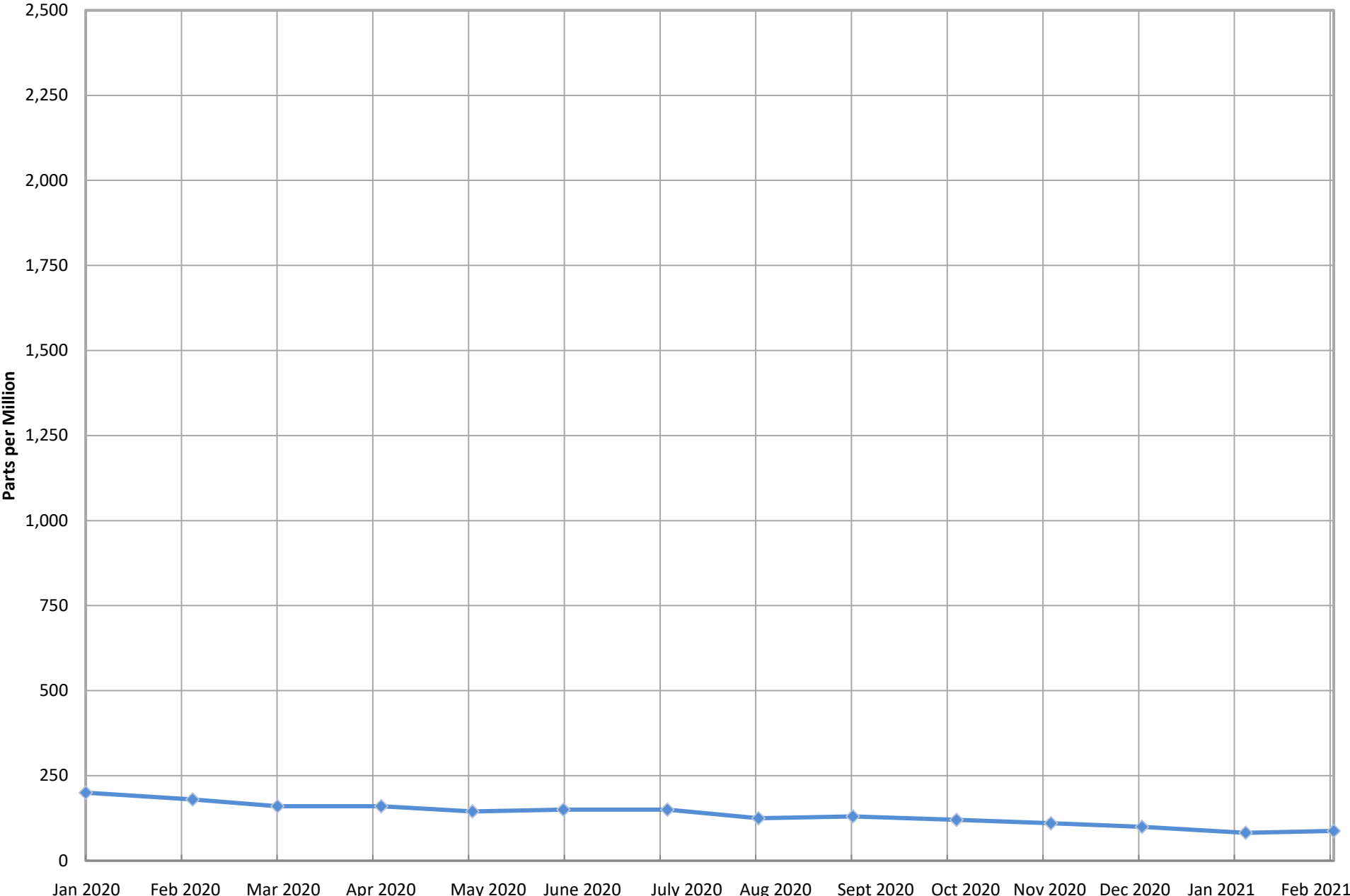
Combined Inlet Gas and Temperature*



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*Gas data collected from Laboratory Reports. Temperature data collected from field readings.

Combined Inlet Carbon Monoxide*

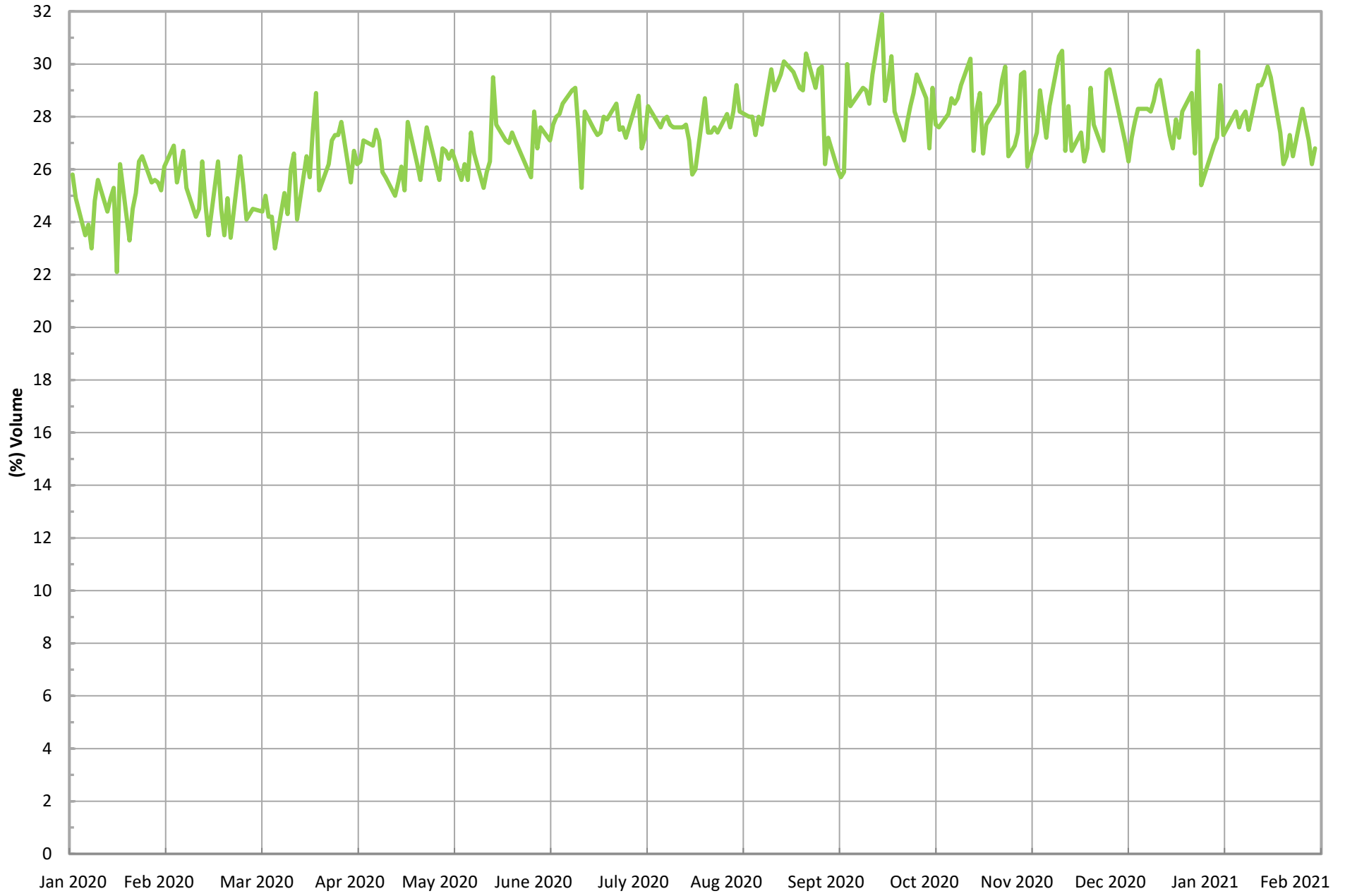


—◆— Inlet Carbon Monoxide*

*Data collected from Laboratory Reports.

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Combined Inlet Methane (Field Data)*

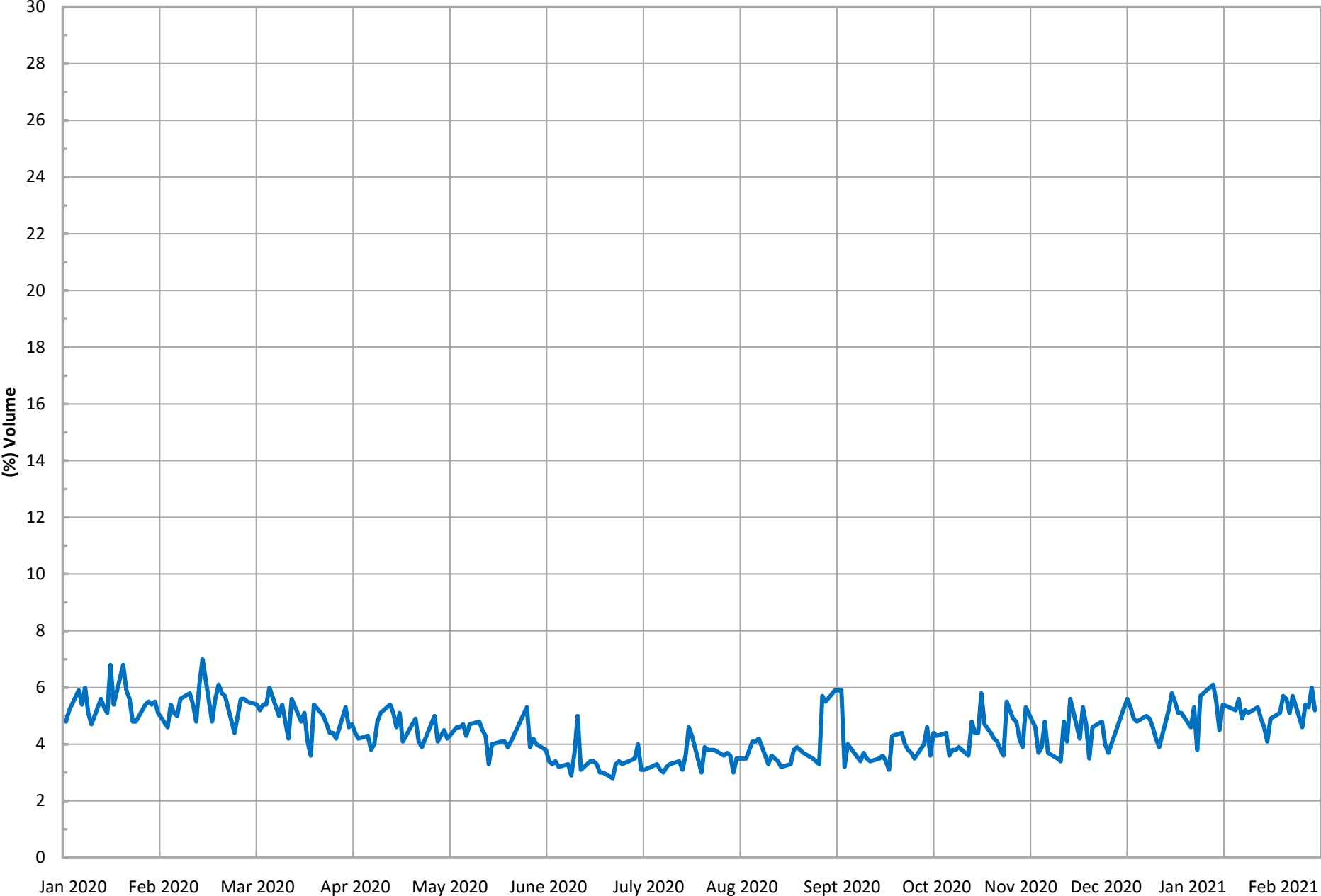


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

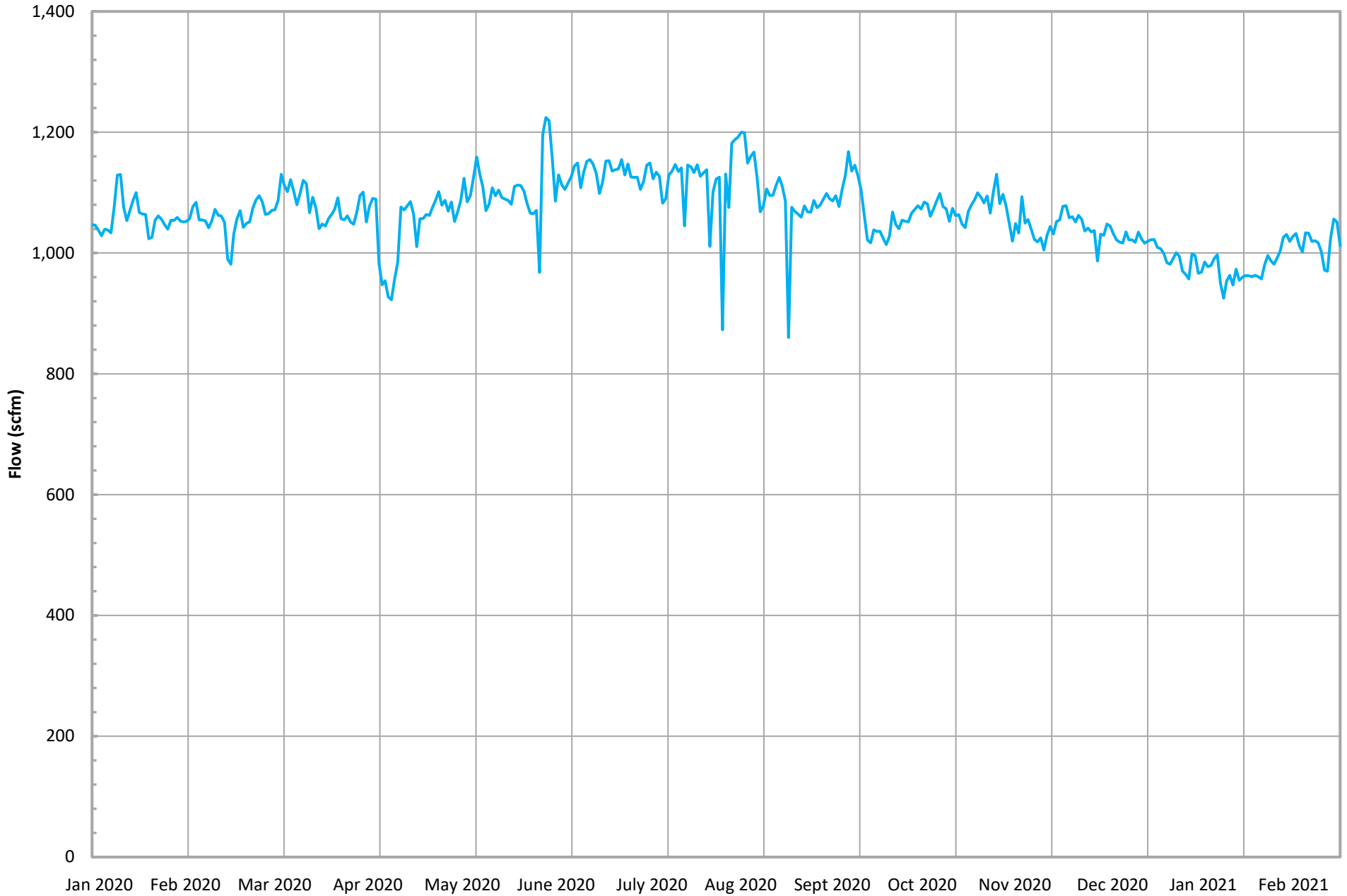


*Gas data collected from field monitoring data

— Combined Inlet Oxygen (Field Data)*

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Total Combined Flow (scfm)*



*Combined flow is based on tabulated flow data collected daily from FL-100, FL-120, FL-140, and the Auxillary Candlestick Flare. On 10/8/19, the Auxillary Candelstick Flare was redirected to the Main Flare.

— Total Combined Flow (scfm)*

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